

Form Approved
OMB No. 2010-0019
Approval Expires 12-31-89



90-890000 367

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Comprehensive Assessment Information Rule

REPORTING FORM

When completed, send this form to:

Document Processing Center Office of Toxic Substances, TS-790 U.S. Environmental Protection Agency 401 M Street, SW Washington, DC 20460 Attention: CAIR Reporting Office For Agency Use Only:

Date of Receipt:

Document
Control Number:

Docket Number:

PART	A G	ENERAL REPORTING INFORMATION
1.01	Thi	s Comprehensive Assessment Information Rule (CAIR) Reporting Form has been
<u>CBI</u>	com	pleted in response to the <u>Federal Register Notice of $[\overline{1}]\overline{2}$</u> $[\overline{2}]\overline{2}$ $[\overline{2}]\overline{2}$ $[\overline{8}]\overline{6}$
[<u></u>]	a.	If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal
		Register, list the CAS No $[\underline{}]\underline{7}\underline{7}\underline{7}\underline{7}\underline{7}\underline{7}\underline{7}\underline{7}\underline{7}\underline{7}$
	b.	If a chemical substance CAS No. is not provided in the <u>Federal</u> <u>Register</u> , list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the <u>Federal</u> <u>Register</u> .
		(i) Chemical name as listed in the rule
	. •	(ii) Name of mixture as listed in the rule
		(iii) Trade name as listed in the rule
	c.	If a chemical category is provided in the <u>Federal Register</u> , report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category.
	٠	Name of category as listed in the rule
	•	CAS No. of chemical substance [_]_]_]_]_]_]_]_]-[_]]
		Name of chemical substance
1.02	Ide	ntify your reporting status under CAIR by circling the appropriate response(s).
CBI	Man	ufacturer
[_]	Imp	orter 2
	Pro	cessor
	X/P	manufacturer reporting for customer who is a processor 4
	X/P	processor reporting for customer who is a processor
•		

1.03	Does the substance you are reporting on have an "x/p" designation associated with it in the above-listed Federal Register Notice?				
<u>CBI</u>	Yes Go to question 1.04				
[_]	No				
1.04	a. Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response.				
CBI	Yes 1				
·	No				
	b. Check the appropriate box below:				
	[] You have chosen to notify your customers of their reporting obligations				
	Provide the trade name(s)				
	[] You have chosen to report for your customers				
	[] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the <u>Federal Register</u> Notice under which you are reporting.				
1.05	If you buy a trade name product and are reporting because you were notified of your reporting requirements by your trade name supplier, provide that trade name.				
<u>CBI</u>	Trade name ANDUR, ADIPRENE				
[_]	Is the trade name product a mixture? Circle the appropriate response.				
	Yes				
	No 2				
1.06	Certification The person who is responsible for the completion of this form must sign the certification statement below:				
CBI	"I hereby certify that, to the best of my knowledge and belief, all information entered on this form is complete and accurate."				
	A-Ronald Hetrich A. Ronald Hetrich 6-29-89 NAME SIGNATURE DATE SIGNED				
	V. P. Dendopment (717) 665 - 2421 TITLE NO.				
[_]	Mark (X) this box if you attach a continuation sheet.				

PART	T B CORPORATE DATA	
1.09	9 Facility Identification	
<u>CBI</u>		
	Other SIC Code	[_]_]_]
1.10	Company Headquarters Identification	
<u>CBI</u>	Name [F] E M M E R T I A M E R T I C I A I Address [多] T I T I M I T I E I E I E I E I E I E I E I E I E	_ <u> </u>
	IPIN Sta Dun & Bradstreet Number Employer ID Number	[<u>0]5]-[2]5]4]-[2]6]6]5]</u>

1.11	Parent Company Identification
<u>CBI</u>	Name [집]_]H]_]트]트]应]진]트]론]_]]_]_]_]_]]]]]
[_]	Address [표] [] [] [] [] [] [] [] [] []
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]]]][_]]]] State
٠	Dun & Bradstreet Number
1.12	Technical Contact
<u>CBI</u>	Name [A]] R [] F [T R] [] C [H]]]]]]]]]]]]]]]]]]
[_]	Title [V]]P] REISEAIRCHI ILIDEVELIOPMENT
	Address [3][][][][[][][][][[][[][][][][][][][][
	[四][[]][[]][[]][[]][[]][[]][[]][[]][[]]
	[P]A] [<u>]</u>] <u>5</u>][]]]] State
	Telephone Number
1.13	This reporting year is from
•	
<u></u>	Warth (V) this has if you about a six of the
r—1 ,	Mark (X) this box if you attach a continuation sheet.

Classification	uantity (l
<u>·····································</u>	
Manufactured	
Imported	
Processed (include quantity repackaged)	-
Of that quantity manufactured or imported, report that quantity:	
In storage at the beginning of the reporting year	
For on-site use or processing	
For direct commercial distribution (including export)	
In storage at the end of the reporting year	-
of that quantity processed, report that quantity:	
In storage at the beginning of the reporting year	-
Processed as a reactant (chemical producer)	
Processed as a formulation component (mixture producer)	Man is the
Processed as an article component (article producer)	52,00
Repackaged (including export)	*************************************
In storage at the end of the reporting year	

· · · · · · (

Quantity manufactured Quantity imported Quantity processed Year ending Quantity manufactured Quantity imported Quantity processed Year ending Quantity imported Quantity processed Year ending Quantity manufactured Quantity processed Year ending Quantity manufactured Quantity manufactured Quantity imported	2.04	State the quantity of the listed substance that your facility manufactured, imported or processed during the 3 corporate fiscal years preceding the reporting year in descending order.
Quantity manufactured Quantity imported Quantity processed Year ending Quantity manufactured Quantity imported Quantity processed Year ending Quantity processed Year ending Quantity manufactured Quantity manufactured Quantity manufactured Quantity manufactured Quantity imported Quantity processed Sologo Year ending Quantity manufactured Quantity processed Sologo Year ending Continuous process types.	CBI	
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Year ending		Quantity imported kg
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Year ending		Quantity imported kg
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Quantity imported Quantity processed 52,000 2.05 Specify the manner in which you manufactured the listed substance. Circle all appropriate process types. CBI Continuous process Semicontinuous process		Year ending
Quantity processed		Quantity manufacturedkg
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appropriate process types. [_] Continuous process Semicontinuous process		Quantity processed
Semicontinuous process		Specify the manner in which you manufactured the listed substance. Circle all appropriate process types.
Semicontinuous process	[_]	Continuous process
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uous process	• • • • • • • • • • • • • • • • • • • •	•••••	••••••
ntinuous process		•••••	
process	• • • • • • • • • • • • • • • • • • • •	••••••	
nce. (If you are	me-plate capacity f a batch manufacture	or manufacturing or processor,	processing the listed do not answer this
cturing capacity	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	· kg/yr
		_	
sing capacity	•••••	******************	Rg/yI
ctured, imported, estimate the incre	or processed at any	time after your curr	ent corporate fiscal
	Manufacturing	Importing	Processing
	Quantity (kg)		
_	Quantity (kg)	Quantity (kg)	Quantity (kg)
of increase	Quantity (kg)	quantity (kg)	Quantity (kg)
of increase of decrease	Quantity (kg)	Quantity (kg)	
_	Quantity (kg)	Quantity (kg)	
_	Quantity (kg)	Quantity (kg)	
_	Quantity (kg)	Quantity (kg)	
_	Quantity (Rg)	Quantity (kg)	
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_	Quantity (kg)	Quantity (kg)	
_	Quantity (kg)	Quantity (kg)	
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_	Quantity (kg)	Quantity (kg)	
_	Quantity (kg)	Quantity (kg)	
_	Quantity (kg)	Quantity (kg)	
	your facility's nance. (If you are on.) cturing capacity sing capacity intend to increas ctured, imported,	your facility's name-plate capacity for nce. (If you are a batch manufacture on.) cturing capacity	on.) cturing capacity

2.09	listed substance substance durin	argest volume manufacturing or processing proce e, specify the number of days you manufactured g the reporting year. Also specify the average s type was operated. (If only one or two opera	or processed number of h	the listed ours per
CBI				•
[_]			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
•		Manufactured		
		Processed	200	20
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)		
		Manufactured		
		Processed	200	20
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
	·	Manufactured		
		Processed		
2.10 <u>CBI</u> []	substance that chemical. Maximum daily in	um daily inventory and average monthly inventory was stored on-site during the reporting year in newspapers of the control of	the form of	

ι,	the instructions for a.	b. % of Quantity	c.	d.
	Product Types ¹	Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users ²
		100	0	I

	<pre>Use the following cod A = Solvent B = Synthetic reactan C = Catalyst/Initiate Sensitizer D = Inhibitor/Stabili Antioxidant E = Analytical reagen F = Chelator/Coagulan G = Cleanser/Detergen H = Lubricant/Friction agent I = Surfactant/Emulsi J = Flame retardant K = Coating/Binder/Ad</pre>	tor/Accelerator/ zer/Scavenger/ it it/Sequestrant it/Degreaser in modifier/Antiwear fier hesive and additives	L = Moldable/Castal M = Plasticizer N = Dye/Pigment/Col 0 = Photographic/Re and additives P = Electrodepositi Q = Fuel and fuel a R = Explosive chemi S = Fragrance/Flavo T = Pollution contr U = Functional flui V = Metal alloy and W = Rheological mod	icals and additives or chemicals col chemicals ids and additives I additives

<u>CBI</u>	Expected Product Types import, or process usin corporate fiscal year. import, or process for substance used during tused captively on-site types of end-users for explanation and an exam	g the listed subst. For each use, speeach use as a perche reporting year. as a percentage of each product type.	ance at any time afte cify the quantity you entage of the total v Also list the quant the value listed und	r your current expect to manufacture olume of listed ity of listed substance er column b and the
	a.	b.	с.	d.
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users ²
		100	_ 0	I
		V		
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	<pre>1 Use the following codes A = Solvent B = Synthetic reactant C = Catalyst/Initiator/</pre>	Accelerator/ er/Scavenger/	L = Moldable/Castabl M = Plasticizer	on/Plating chemicals
	<pre>E = Analytical reagent F = Chelator/Coagulant/ G = Cleanser/Detergent/ H = Lubricant/Friction agent I = Surfactant/Emulsifi J = Flame retardant K = Coating/Binder/Adhe</pre>	Degreaser modifier/Antiwear er sive and additives	S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and W = Rheological modi X = Other (specify)	chemicals ol chemicals ls and additives additives
	<pre>F = Chelator/Coagulant/ G = Cleanser/Detergent/ H = Lubricant/Friction agent I = Surfactant/Emulsifi J = Flame retardant</pre>	Degreaser modifier/Antiwear er sive and additives	S = Fragrance/Flavor T = Pollution contro U = Functional fluid V = Metal alloy and W = Rheological modi X = Other (specify)	chemicals ol chemicals ls and additives additives

SECTION 3 PROCESSOR RAW MATERIAL IDENTIFICATION

3.01 CBI	Specify the quantity purchased and the average price for each major source of supply listed. Product tra The average price is the market value of the product substance.	des are treated as	s purchases.
[_]	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	bource of buppry	(Kg)	(3/28)
	The listed substance was manufactured on-site.	**************************************	
	The listed substance was transferred from a different company site.		
	The listed substance was purchased directly from a manufacturer or importer.	52,000	4.83
	The listed substance was purchased from a distributor or repackager.		
-	The listed substance was purchased from a mixture producer.	·	
3.02 CBI	Circle all applicable modes of transportation used to your facility. Truck		
	Railcar		
	Barge, Vessel		
	Pipeline		
	Plane		•
	Other (specify)		•
•			•

a.	Circle all applicable containers used to transport the listed substance to your facility.
	Bags
	Boxes
	Free standing tank cylinders
	Tank rail cars
	Hopper cars
	Tank trucks
	Hopper trucks
	Drums
	Pipeline
	Other (specify)
b.	If the listed substance is transported in pressurized tank cylinders, tank rail cars, or tank trucks, state the pressure of the tanks.
	Tank cylinders mm
	Tank rail cars mm
	Tank trucks mm

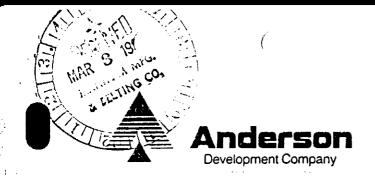
	orm of a class I chemical, class by weight, of the listed subs	ss II chemical, or polymer, and stance.
	Quantity Used (kg/yr)	<pre>% Composition by Weight of Listed Sub- stance in Raw Material (specify ± % precision)</pre>
Class I chemical	52,000	1.1 ± 15 E
Class II chemical	· · · · · · · · · · · · · · · · · · ·	
•		
Polymer		· · · · · · · · · · · · · · · · · · ·

E = E	ing nearing Est	trate

[_] Mark (X) this box if you attach a continuation sheet.

	SECT	CION 4	PHYSICAL/CHEM	CAL PROPERTIES		
Gener	al Instructions:					
	ou are reporting on a mix out are inappropriate to mi				estions in Section	
notic	questions 4.06-4.15, if your control of the control	ormatio	on requested, y	ou may submit a copy or		
PART	A PHYSICAL/CHEMICAL DATA	A SUMMA	ARY	· · · · · · · · · · · · · · · · · · ·		
4.01 <u>CBI</u>	Specify the percent puri substance as it is manuf substance in the final p import the substance, or	acture roduct	ed, imported, or form for manu:	processed. Measure the facturing activities, a	he purity of the t the time you	
(<u> </u>	IV A	Man	ufacture	Import	Process	
	Technical grade #1		% purity	% purity	% purity	
	Technical grade #2		% purity	% purity	% purity	
	Technical grade #3		% purity	% purity	% purity	
*************************************	¹ Major = Greatest quanti	ty of	listed substance	e manufactured, importe	ed or processed.	
4.02	Submit your most recently updated Material Safety Data Sheet (MSDS) for the listed substance, and for every formulation containing the listed substance. If you possess an MSDS that you developed and an MSDS developed by a different source, submit your version. Indicate whether at least one MSDS has been submitted by circling the appropriate response.					
	Yes					
	No 2					
	Indicate whether the MSDS was developed by your company or by a different source.					
	Your company		• • • • • • • • • • • • • • • • • • • •	••••••	1	
	Another source		•••••		2	

 $[\underline{ }]$ Mark (X) this box if you attach a continuation sheet.



Product	Common	Name	Andur

Effective Date November 15, 1985

Material Safety Data Sheet

HAZARD RATING	FIRE
4=EXTREME	1 REACTIVITY
3=HIGH	2 1
2=MODERATE 1=SLIGHT TOXIC	city \\
0=INSIGNIFICANT	SPECIAL
•=SEE SECTION IV	

TRANSPORTATION EMERGENCY: CALL CHEMTREC

TELEPHONE NUMBER: (800) 424-9300

ANDERSON DEVELOPMENT EMERGENCY

TELEPHONE NUMBER: (517) 263-2121

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STD.)

SECTION I IDENTIFICATION

PRODUCT NAME:	Andur Prepolymer (-AP, -DP, AL-, -AS/Part A Designations)			
CHEMICAL NAME:	Isocyanate Terminated P	socyanate Terminated Prepolymer CHEMICAL FAMILY: Diisocyanate		
FORMULA:	Polymeric		T.S.C.A. STATUS:	Yes 1980
YNONYMS:	Aromatic and Aliphatic Diisocyanates			
DEPARTMENT OF	HAZARD CLASSIFICATION	Not-Regulate	ed	
TRANSPORTATION	SHIPPING NAME	Plastic Mate	rial Liquid, NOI	
CAS # Not Appli	cable CAS NAME This MSDS	Represents V	arious Diisocyana	ites

SECTION II HAZARDOUS COMPONENTS

MATERIAL	%	TLV (Units)	HAZARD
Isocyanate Monomer	<3	0.02 ppm	Highly Toxic Vapors

SECTION III PHYSICAL DATA

Melting point	Not Known	Specific Gravity (H ₂ 0 = 1)	1.07 ±0.05
Boiling point	Above 450°F	Solubility in H ₂ 0, % by WT	Reacts
Vapor pressure	0.0003 @20°C	% Volatiles by Volume	<2
Vapor Density (Air - 1)	· 6	Evaporation rate (butyl	0 - Reacts Air
Room temperature:		acetate = 1)	Humidity
appearance & state	Light Yellow Liquid	pH (as is)	Not Applicable
Odor	Slight Isocyanate	pH (1% solution)	Not Applicable

MSDS	" 0003

SECTION IV FIRE AND EXPLOSION DATA

Flash point 325°F (COC)	Florenchie Limite (six)	Upper Not Known	
Autoignition temp. Not Known	Flammable Limits (air)	Lower Not Known	
Extinguishing XX Water XX Water Fog XX C	CO ₂ XX Dry Chemical	Other	
Special fire Highly toxic gases.	Wear self-contained b	oreathing apparatus.	
Degree of fire and Slight chance of initial containers may explode			
XX Stable Unstable	Hazardous Polymerization	May Occur XXWill Not Occur	
Conditions to Avoid High temperatures.			
Major contaminates that may contribute to instability See Incompatib	pility.		
Incompatibility Water, Alcohols, Amines, A	Alkali, Metal Compound	s, Surfactants	
Hazardous decomposition Traces of Hydrogen Cyanide, Carbon Dioxide, Carbon Monoxide, Oroducts Nitrogen Oxides, Monomeric Isocyanate			

SECTION V SPECIAL PROTECTION

Ventilation requirements Local to maintain vapor conc. below TLV.			
Recommended personal protective equipment: See specifics below.			
Respiratory (Specify conditions) Normal Conc.: Canister (organic). High Conc.: Self-Contained (air).			
Eyes Safety Glasses. Contact lenses should not be worn.			
Gloves Chemical resistant rubber or plastic.			
Special clothing and equipment Safety showers, eye-wash.			

SECTION VI SPILL CONTROL

area and cover spil	l with absorbent. I	ntial personnel (toxic var Decontaminate with a dilu- with additional base.	pors). Ventilate te base. Collect
Waste disposal method In accordance with Prior to disposal,		Local Regulations. containers due to produc	t residue.
Neutralizing chemicals D11u	te base preferably a	a solution of 10% ammonium	n hydroxide in water.

MSDS # _____

SECTION VII HEALTH EFFECTS DATA

LITIM AND COUDOR.	l exposure to diisocyanates. ppm; TWA = 5 ppm; SAX 6 Ed.		
ACUTE EFFECTS OF OVEREXPOSURE			
SWALLOWING	Monomeric isocyanate. Oral Rat-LD ₅₀ : 5800 mg/kg.		
SKIN ABSORPTION	Allergic Dermatitis including rash, itching, hives and swelling.		
INHALATION	Monomeric isocyanate injurious to lungs and pulmonary edema may occur.		
SKIN CONTACT	Irritation and itching.		
EYE CONTACT	Monomer isocyanate eye rbt 100 mg. Severe damage. **• Watering of eyes.		
CHRONIC EFFECTS OF OVEREXPOSURE	Extreme sensitivity may result.		
OTHER HEALTH HAZARDS	Allergic reaction in some individuals.		
EMERGENCY AND FIRST AID PROCEDURES:			
SWALLOWING	See Physician Immediately.		
SKIN	Remove contaminated clothing. Wash affected area with soap and water.		
INHALATION .	Move from area of exposure. Administer oxygen.		
EYES .	Eyewash flush - see Physician.		

ALTHOUGH THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN (HEREINAFTER "INFORMATION") ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE CORRECT AS OF THE DATE HEREOF, ANDERSON DEVELOPMENT COMPANY MAKES NO REPRESENTATIONS AS TO THE COMPLETENESS OR ACCURACY THEREOF. INFORMATION IS SUPPLIED UPON THE CONDITION THAT PERSONS RECEIVING SAME WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR PURPOSES PRIOR TO USE. IN NO EVENT WILL ANDERSON DEVELOPMENT COMPANY BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

MSDS #	0003	PREPARED BY: J. R. Huerta	
		Environmental)	Manage



UNIROYAL CHEMICAL CU. World Headquarters

Middlebury, Connecticut 06749

UNIROYAL Emergency Phone 203/723-3670 CHEMTREC Transportation Emergancy Phone: 800/424-9300

MATERIAL SAFETY DATA SHEET

L **IDENTIFICATION**

Trade Name: ADIPRENE®*

Chemical Name(s): Reaction product of a polyether with toluene diisocyanate

(TDI)

*Applicable to L-42,L-83,L-100,L-167, L-200,L-213,L-300,L-315,L-367,L-700, L-767 and AP-R-882

CAS Number: Chemical Family:

NA Polyurethane

DOT Ident. No.:

DOT Hazard Class:

NA

DOT Proper Shipping Name:

NA

PHYSICAL DATA II.

Appearance:

Honey-colored liquid

Slight

Solubility

Water:

Odor:

Reacts with water

Soluble in THF, DMF or Other:

methylene chloride

pH: NA Other Data: Melting Point: NA

Boiling Point: NA

1.03-1.15 Specific Gravity ($H_2O = 1$):

Vapor Pressure @ 20° C:

ND ND

Vapor Density (Air = 1):

Volatility @ 70° F:

Low

III. FIRE AND EXPLOSION HAZARD DATA

Flash Point: > 177°C(350°F) rc

Autoignition Temp: ND

Extinguishing Media: Water spray, CO

Flammable Limits in Air:

dry chemical Special Fire Fighting Procedures:

Protect against inhalation of cyanate vapors & other decomposition/combustion products.

Unusual Hazards: None

REACTIVITY DATA IV.

Stable at ambient temperatures and pressures. Stability:

Incompatibility: Avoid contamination with water, strong oxidizers, alcohol or amines. Decomposition Products: High temperatures will release cyanates & hydrocarbons.

Under burning conditions - oxides of carbon & nitrogen, small amounts of HCN. OF FICE.

Uniroyal makes no representation or warranty with respect to the information in this Material Safety Data Sheet. The information is however, as of this date

provided, true and accurate to the best of Univoyal's knowledge. This list of information is not intended to be all inclusive. Accurat conditions of use and handling

SPECIAL PRE LTION INFORM TION

Engineering Controls: Local exhaust ventilation strongly recommended. Product contains residual TDI which has an OSHA limit of 0.02 ppm under 29 CFR 1910.1000. ACGIH, TLV: 0.005 ppm.

Personal Protection Equipment: Impervious gloves & goggles should be worn. Avoid all contact with eyes, skin & clothing. Avoid breathing vapors. In the absence of good ventilation, under emergency situations or for high concentrations, self-contained or air-supplied respiratory protection is recommended.

VI. STORAGE, SPILLS, AND DISPOSAL INFORMATION

Storage: Store away from sources of direct heat and moisture. Seal containers with a dry nitrogen blanket and keep closed when not in use. Moisture contamination will evolve CO₂ and create pressure in closed systems. Spills: Absorb on inert material. Transfer to open containers outside or in well-ventilated area. Soak with dilute ammonia hydroxide or water-alcohol mixture. Allow time for reaction to be complete before disposal.

Disposal: In accordance with any local, state and federal regulations regarding polymeric waste.

Environmental Information:

Environmental effects have not been determined.

VII. HEALTH RELATED DATA

Specific Hazard(s): Potential skin, eye & respiratory irritant.

First Aid Procedures: If eye contact occurs, flush with water for 15 minutes, get medical attention. For skin exposure, wipe off excess material, wash skin with rubbing alcohol and than soap and water. If redness or irritation persist, get medical attention. For inhalation move to fresh air, administer oxygen if needed, get medical attention. Wash clothing before reuse. Discard shoes if contaminated inside.

Toxicology Information: The major potential adverse effects of this compound are due to the residual (TDI) which has been shown to cause respiratory irritation and sensitization in certain individuals. TDI is also a severe skin & eye irritant.

Traces of residual TDI will range from approximately 0.02 to 4.0% depending upon polymer.

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response.
	Yes 1
	No

4.04 For each activity that uses the listed substance, circle all the applicable number(s) corresponding to each physical state of the listed substance during the activity listed. Physical states for importing and processing activities are determined at the time you import or begin to process the listed substance. Physical states for manufacturing, storage, disposal and transport activities are determined using the final state of the product.

Physical State Liquified Activity Solid Slurry Liquid Gas Gas Manufacture 1 2 3 5 Import 1 2 3 5 **Process** 2 5 Store 2 5 1 2 5 Dispose 3 5 Transport 1 2 3

[_] Mark (X) this box if you attach a continuation sheet.

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

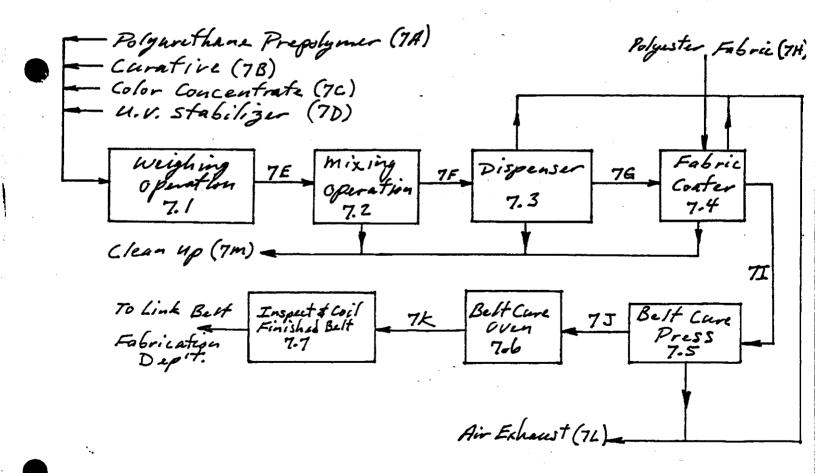
General Instructions:

For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

- 7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

 CBI
- [] Process type Polyurethane Belt Casting Process



[] Mark (X) this box if you attach a continuation sheet.

In accordance with the instructions, provide a separate process block flow diagram showing each of the three major (greatest volume) process types involving the listed substance. CBI Process type Polywrethane Belt molding Process Polyarethane Prepolymer (7A) Curative (7B) Color Concentrate (7C) Plasticizer (7D) Clean up (7m) molded Belt Molding 74 Air Exhaust (71)

٠.,

In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block. CBI Plant Processes Process type Raw materials Raw Materials (7A, B, C, D = H) (7A, B, C, D\$K) (7I) Polywrith AME Belt . molding Process Polywrothane Belt Casting Process 7.2 7.[Clean-up (7m) Vacuum Pump (7F. J) LTDI Containing Processes-"Non" TDI Containing Processes -Thermoplastic Polywrethens Extrusion *Rubber * Fabric Adhesive * Pennsylvania D.E.R. Permits Coater

Mark (X) this box if you attach a continuation sheet.

7.04 Describe the typical equipment types for each unit operation identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type. CBI Process type Polywrithan Belt Casting Process Unit Operating Operation Typical Operating Pressure ID Equipment Temperature Range Vessel Number (mm Hg) Type Range (°C) Composition 7./ Digital Floor Scale 20 to 50 735 7.2 Mixer & TRUK 50 735 4 HMW Tank perser Tank 50 735 4HMW Tauk Fabric Conter 40 735 BeHlure Press" 4800 150 120 735 40 735

[[]X] Mark (X) this box if you attach a continuation sheet.

7.04 CBI	Describe the typical equipment types for each unit operation identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type.								
<u> </u>	Process type	e <u>Polyaretha</u>	ne Belt 1	nolding P	rocess				
	Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composition				
•	7.1	Digital Floor Scale	20to50	735					
	7.2	Mixer & Tank	_50_	735	Steel TAI				
	7.3	Dispenser Tank	50	735	Steel TA				
• •	7-4	Belt Injection mold	150	15,000	steel n				
	7.5	Inspection Area	30	73.5					
		•		4 · ·					
				 	·				
		· · ·							

			•						
			·						
			:						

7.05	process block f	process stream identified in your p flow diagram is provided for more t omplete it separately for each proc	han one process type	iagram(s). If a
CBI		•		•
[_]	Process type	Polyurethane Be	It Casting	Process
	Process Stream			
	ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr)
•	TE, F, G, I	Polyworthane Mixture	OL	52,000
	_7 <i>H</i>	woven Polyester Fabri	<u> 50</u>	55,000
	7 <u>J,k</u>	Woven Polyester Fabri Cared Polyurothane Belt	fSo	107.000
				
•			. *	

GC = Gas (condensible at ambient temperature and pressure)

GU = Gas (uncondensible at ambient temperature and pressure)

SO = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

.05	process block f	process stream identified in your particle. It is provided for more to implete it separately for each process.	han one process typ	iagram(s). If e, photocopy th
BI		•		•
_1	Process type	Polywrethane B.	est Molding	Process
	Process			
	Stream ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/y
	7E,G,H	Polywrethane Mixture	04	15,000
	7K	Polymethane Mixture Kerlar/Polyester yaens		1500
	74	Cared, moked Belts		16500
	-			
			. •	
	GC = Gas (condo GU = Gas (uncon SO = Solid SY = Sludge or AL = Aqueous 1: OL = Organic 1:	iquid	pressure) d pressure)	
٠.,				

[_]	Process type	e <u>Polywet</u> b.	Thank Belt	casting	Process
	a.	b.	c.	d.	e.
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentration (% or ppm)
	<u> 7A</u>	Poly wrothane	100%		
	<u>78</u>	methylene dianiline nsodium chloride Comp		eoctyl Phthai	(ate 50 % (E) (W)
	7C \$7D	Additive Package			
.06	continued be	low			
	·				
٠,					·

7.06 CBI	If a proces this questi	e each process stream is block flow diagram is on and complete it sepas for further explanati	provided for mately for each	nore than one proces n process type. (Re	s type, photoco
		-	_		Process
	a.	e <u>Polyure</u> b.	c.	d.	e.
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)
	<u>7A</u>	Polyurethane	100%		
	$\frac{78}{}$	Methylene dianiline in Sodiam chloride Com	50%	Dioctyl Phthalat	50%
•			<u> </u>		(E1(VV)
	76,70	Additive Packay	<i></i>		21.07.12
		#2	*		
-					
 7.06	continued be	elov			•••••••••••••••••••••••••••••••••••••••
			. ,		
•					
•				***	

7.06 (continued)

For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive ckage Number	Components of Additive Package		Concentrations (% or ppm)
1	Color Concentrate	(E)(W)_	z.5%
	u.v. stabilizer	(EXW)_	0.4%
2	Color Concentra	- tz (EXW <u>)</u>	z-5%
	Color Concentra Plasticizer	(E)(W) _	o % to 15
3		/=	he whode
4		_	

5		_	
,			
the following codes to	designate how the concer	 ntration was	determined:
Analytical result Engineering judgement/o		1	,

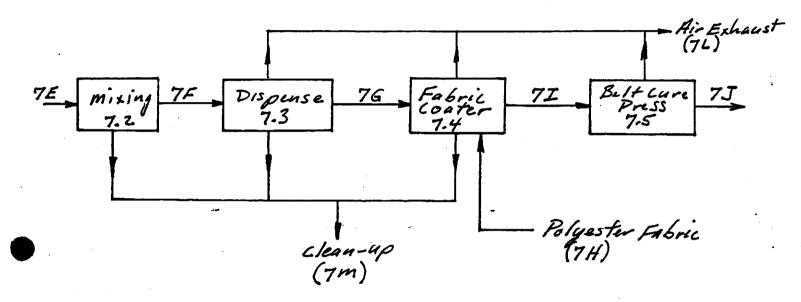
V = Volume
V = Veight

PART A RESIDUAL TREATMENT PROCESS DESCRIPTION

8.01 In accordance with the instructions, provide a residual treatment block flow diagram which describes the treatment process used for residuals identified in question 7.01.

CBI

[] Process type Polywrethane Belt Casting Process



(7L) Exhaust Air 3,000 CFM (E)

(7m) Clean-up

one time each week for Color changes and week end Shut down.

methylene Chloride is used for clean up, some evaporation to air and some to distillation Unit for recycling.

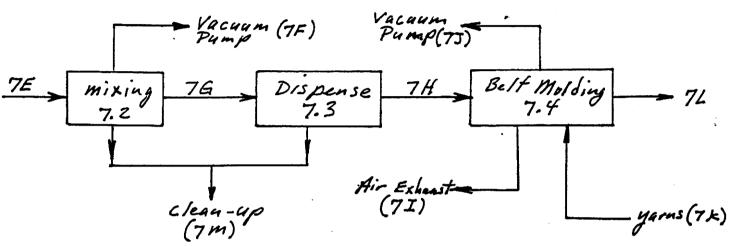
Residual liquid polywrethana is moisture cares to a solid.

[[] Mark (X) this box if you attach a continuation sheet.

8.02 In accordance with the instructions, provide residual treatment block flow diagram(s) which describe each of the treatment processes used for residuals identified in question 7.02.

CBI





- (71) Air Exhaust 4,000 CFM (E)
- (7F, J) Vacuum Pump 20 CFM (E)
 Exhaust.

 Pumponly emits TDI
 during injection mobs
 fill, 30 Seconds per
 15 minutes.
- (7m) clear up same type clear up as in 8.01 but without the week end shout downs.

The mix and dispense process is a closed system that will not cure up over the week end. Therefore the cleaning is less frequent than in 8.01.

 $[\]left[\begin{array}{c} \end{array}
ight]$ Mark (X) this box if you attach a continuation sheet.

8.05 CBI	diagram	(s). If a r type, photo	esidual tre copy this q	am identified in atment block fluestion and com- ons for further	ow diagram is plete it separ	provided for cately for ea	: more than one
[_].	Process	type	Poly	un Shane	Belt Cast	ing Prol	ess
	a.	b.	c.	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ^{4,5,6}	Other Expected Compounds	Estimated Concen- trations (Z or ppm)
	71_		<u> </u>	Air	99.99 % E)(V)	7DI	z.3 PP (E)(V)
	7m		<u> </u>	Mothylene Child	vile 40%	NA	NA
	_		06	<u>Polyurellum</u> e	58,5% (E)(W)	TDI	1.5% (E)(v)
	•						
.05	continue	ed below					

8.05 CBI	diagram process	(s). If a r type, photo	residual tre copy this o	eam identified in a contract the contract of t	low diagram is mplete it separ	provided for ea	more than one ich process
[_]	Process	type	Polyl	unthane.	Belt Mol	ding Pr	ocess
	a.	b.	c.	d.	e.	f.	g.
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ^{4,5,6}	Other Expected Compounds	Estimated Concen- trations (Z or ppm)
	<u>7I</u>		<u> </u>	_Air	99.99 % €)(V)	TDI	2.3 PPb (E)(V)
	<i>75</i> ,7		<u> </u>	Air	38%(EXw)	TDI	62% (EX
	7 m	······································		Metlaylene Chlo	ide 20% (E)W)	NA	NA
	-		04	Polywrothens	79.75% (EXV)	TDI	0,25% (E)(W)
		,					
.05		d below		***************************************			

8.06	diagram process	erize each p (s). If a r type, photo (Refer to the	esidual trea copy this qu	itment block sestion and o	flow diagra	m is pro separate	vided for mo ly for each	re than one process
CBI			•					
[_]	Process	type	Poly	unthan	- Belt C	astin	g Proce	. \$\$
	a.	b .	c.	đ.	e.		f.	g.
	Stream ID Code	Waste Description Code	Code	Residual Quantities (kg/yr)	Manage of Residu On-Site O	al (%)	Costs for Off-Site Management (per kg)	Changes in Management Methods
	74	Air		24, 100, 000			:	None
	7m	<u>B59</u>	<u> M 5 (A)</u> £ Z S R	1500	<u>/00</u> _			Noul
-		·		7500		Tayate 	<u> </u>	None
-	7m	<u>B 69</u>	52	4500	100			
							400000000000000000000000000000000000000	
							•	
*******	_	codes provi						
.,							 	
IΣI	Mark (X)	this box if	you attach	a continuat	ion sheet.	•	_	

8.06	diagram process	(s). If a return type, photoe	rocess streamesidual trea copy this quo e instruction	tment block estion and c	flow diagrouplete it	am is pro : separate	vided for mo ly for each	re than one process
CBI	•			-			•	
[_]	Process	type	<u>Polyn</u> c.	rethane	BeH	moldn	Proce	22
	a.	b. `	c.	d.	e.	·		g.
	Stream ID Code	Vaste Description Code ¹		Residual Quantities (kg/yr)	of Resid	ement lual (%) Off-Site	Costs for Off-Site Management (per kg)	Changes in Management Methods
	<u>7I</u>	Air	M 5 (a)	32, 000,000	100		· · ·	None
	far i j							
	7 <i>5</i> , J	Air	<u>ms (a)</u>	27,000	100			Nous
								,
·	<u>7M</u>	<u>B59</u>	<u>M5(a)</u> \$ 25 R	500	100			None
	<u>7m</u>	<u>B69</u>		1500				None

	_	_	ded in Exhib					
[_]	Mark (X)) this box if	you attach	a continuat	ion sheet.			

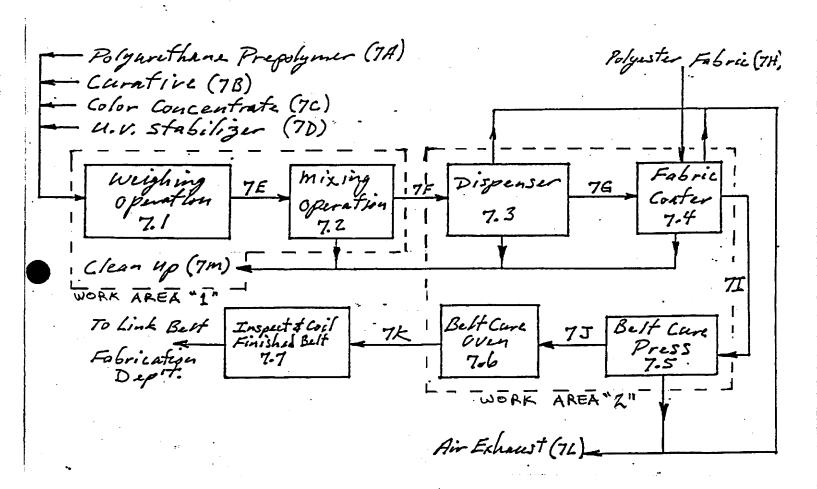
PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

[_]	D	ata are Ma	intained for	: Year in Which	Number of
	Data Element	Hourly Workers	Salaried Workers	Data Collection Began	Years Records Are Maintained
	Date of hire	×	×	1940	Ind.
				1940	Ind.
	Age at hire			- 1370	
	Work history of individual before employment at your facility	_×_		1940	Ind.
	Sex	_X_		1940	Ind.
	Race				
	Job titles	_×_	<u>X</u>	1940	Ind.
	Start date for each job title				~
	End date for each job title				
	Work area industrial hygiene monitoring data				
	Personal employee monitoring data				
	Employee medical history				
	Employee smoking history				
	Accident history			1940	Ind.
	Retirement date		<u>×</u>	1940	Ind.
	Termination date		X	1940	Ind.
	Vital status of retirees				•
	Cause of death data				
•					

03	Provide a descripti encompasses workers listed substance.	ve job title for each labor category at your facility that who may potentially come in contact with or be exposed to the
I	210tta Dabbiance.	
_]		
	Labor Category	Descriptive Job Title
	A	Polyorethane Belt Caster
	В	Polyorethane Belt Coster Polyorethane Bett Molder Engineering Technician
	С	Engineering Technician
	D	
	E	N N
	F	
	G	
	H	
	I	
	J	
•		

9.04	In accordance with the instructions,	provide your process block flow diagram(s) and
	indicate associated work areas.	

[] Process type Polywethane Belt Casting Process



9.04 In accordance with the instructions, provide your process block flow diagram(s) and indicate associated work areas.

CBI [] Process type Polywethane Belt Molding Process - Polyarithane Prepolymer (7A) - Curative (7B) - Color Concentrate (7C) Plasticizer (7D) mixing Clean up (7m) Molded Bult Insp.

^[] Mark (X) this box if you attach a continuation sheet.

9.05 CBI	may potentially come additional areas not	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or s question and complete it separately for each process type.
[_]	Process type	Polyvrethene Bolt Casting Process
	Work Area ID	Description of Work Areas and Worker Activities
	1	Scale, Mixer - Belt Coster weighs & mixes
	`2	Casting Machine - Belt caster operates made
	3	
	4	
	` 5	
	6	
	7	
	8	
-	9	
	10	
•	•	

9.05 CBI	may potentially come additional areas not	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or question and complete it separately for each process type.
	Process type	Polywrethane Bett Molding Process
	Work Area ID	Description of Work Areas and Worker Activities
	1	Scale, Mixer - Belt Molder weighs & mixes
	2	Molding Machinery - Bett Holder operates Mach
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
		·
•		
		you attach a continuation sheet.

9.06	Complete the following table for each work area identified in question 9.05, and for
	each labor category at your facility that encompasses workers who may potentially come in contact with or be exposed to the listed substance. Photocopy this question
CBI	and complete it separately for each process type and work area.

CBI	-	. -	ly for each process typ			
[_]	Process type	" Scal	en Mixer	Cast?	& Prece	:5\$
	Labor Category	Number of Workers Exposed	Mode of Exposure (e.g., direct skin contact)	Physical State of Listed Substance	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
	Belt Caster	2	Direct Stin Contoct		_	200
	Engl.	2	Direct Stin Contact		В	200
						
)						••
•			•			
-				****		

GU = Gas (uncondensible at ambient temperature and pressure; includes fumes, vapors, etc.)

SO = Solid

SY = Sludge or slurry

AL = Aqueous liquid

OL = Organic liquid

IL = Immiscible liquid
 (specify phases, e.g.,

90% water, 10% toluene)

²Use the following codes to designate average length of exposure per day:

- A = 15 minutes or less
- B = Greater than 15 minutes, but not exceeding 1 hour
- C = Greater than one hour, but not exceeding 2 hours
- D = Greater than 2 hours, but not exceeding 4 hours
- E = Greater than 4 hours, but not exceeding 8 hours
- F = Greater than 8 hours

¹Use the following codes to designate the physical state of the listed substance at the point of exposure:

9.06 CBI	each labor of come in cont	ategory at year	able for each work area our facility that encom be exposed to the liste ly for each process typ	passes worke d substance.	rs who may po Photocopy t	tentially
[_]	Process type	<u>P</u> e	slyurethane Costing Mac	Belt C	asting	Process
	Work area	2	costing Mac	~~~ <u></u>		
	Labor Category	Number of Workers Exposed	Mode of Exposure (e.g., direct skin contact)	Physical State of Listed Substance	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
•	Beltcaster	2	Direct skin Gotot		F	200
	Eng.	2	Direct skin Godett Direct skin Godett	OL	В	200
	-			Account of the control of the contro		
•						
		<u> </u>				· ·-
. •	·					
-						

·						

- GU = Gas (uncondensible at ambient temperature and pressure; includes fumes, vapors, etc.)
- SO = Solid

- SY = Sludge or slurry
- AL = Aqueous liquid
- OL = Organic liquid
- IL = Immiscible liquid
 (specify phases, e.g.,
 90% water, 10% toluene)

- A = 15 minutes or less
- B = Greater than 15 minutes, but not exceeding 1 hour
- C = Greater than one hour, but not exceeding 2 hours
- D = Greater than 2 hours, but not exceeding 4 hours
- E = Greater than 4 hours, but not exceeding 8 hours
- F = Greater than 8 hours

¹Use the following codes to designate the physical state of the listed substance at the point of exposure:

²Use the following codes to designate average length of exposure per day:

				• .			
9.06	each labor c	ategory at yo	able for each wo our facility tha be exposed to th	at encom	mpasses worke	ers who may pot	tentially
CBI	and complete	it separate	ly for each pro	cess typ	e and work a	rea.	•
[_]	Process type	<u>Pol</u>	yurethan	Belt	Weldin	& Proc	<u> </u>
	Work area	.!`` .s.	Lale, Mi	Ker			
	Labor Category	Number of Workers Exposed	Mode of Exposu (e.g., dir skin conta	ect	Physical State of Listed Substance	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
	Belt Nolder	2	DirectSkin	Cata	0 _	C	005
7	Ens.		Direct Skin	Gnt =	+OL	B	200
							·
)							٠.
•			•				•
	the point of GC = Gas (or temper GU = Gas (or temper includ SO = Solid 2 Use the following	exposure: condensible a cature and pr uncondensible cature and pr des fumes, va lowing codes	essure) at ambient essure;	SY = AL = OL = IL =	Sludge or s. Aqueous liquorganic liquorgan	lurry uid uid liquid ases, e.g., 10% toluene) osure per day:	
	A = 15 minut B = Greater	tes or less than 15 minu	tes, but not		Greater than exceeding 4 l	2 hours, but nours	not
	exceedir C = Greater	ng 1 hour than one houng 2 hours		E =		4 hours, but nours	not
	-						

	come in cont	act with or l	our facility the be exposed to the	ne listed	d substance.	Photocopy th	is question
CBI	-		ly for each prod				
[_]	Process type	: <u>Po</u>	lyurethere	Belt	Moldin	Proce:	<u>22</u>
	Work area	2" No	ly wethere lding Mac	h.ne	·/		
	Labor Category	Number of Workers Exposed	Mode of Exposu (e.g., din skin conta	ect	Physical State of Listed Substance	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
	Molder	6	Direct Ski	contect	OL	F	200
	Eng.	2	Direct Stin	Contect	OL	B	200
•							
							·-
•			_				
		•					
_		-					
	the point o GC = Gas (tempe GU = Gas (tempe inclu SO = Solid	f exposure: condensible a rature and pr uncondensible rature and pr des fumes, va	ressure) e at ambient ressure; apors, etc.)	SY = AL = OL = IL =	Sludge or sl Aqueous liqu Organic liqu Immiscible l (specify pha 90% water, 1	lurry uid uid liquid uses, e.g., l0% toluene)	bstance at
	'Use the fol	lowing codes	to designate av	• •			
	exceedi C = Greater	tes or less than 15 minu ng 1 hour than one hou ng 2 hours		e E = G e	exceeding 4 h	4 hours, but a	

<u>BI</u> —1	Process type	Polivrethan Belt	casting process
— '	Work area	Polyonethan Belt weigh Mix	*
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Lev (ppm, mg/m³, other-specify
•	Caster	<.003. PP m	,003 PFM
	Exter Exich,	<.003 PPM	,003 PFM
			· · · · · · · · · · · · · · · · · · ·
			
		·	
-		· · · · · · · · · · · · · · · · · · ·	•
	•		
		-	
			•

(

CRT	Photocopy this que area.	TWA) exposure levels and the 15-mistion and complete it separately	for each process type and work
CBI	Process type	Deliverthan Bett Co	estin Process
lJ	Work area	· Polywethere Bett Co Casting Nachine	
	Labor Category	8-hour TWA Exposure Level	15-Minute Peak Exposure Level (ppm, mg/m³, other-specify)
	Belt	4.003 PFM	.003 PFM
•	Entich.	<.003 PFM	.003 PPM
·			
•			
		· •	
•	the state of the s		
	·		
-			
		•	

9.07	Weighted Average	tegory represented in question 9.06 (TWA) exposure levels and the 15-mi estion and complete it separately i	inute peak exposure levels.
	Process type	Polywethone Bett No	lding Process
_	Work area	Polywethone Bett No Wergh Mix	
	Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Level (ppm, mg/m³, other-specify)
	Belt		.00 3 PPM
	Freih.	<.003 PFM <.003 PPM	.00 3 PPM
	•		
•		•	
			·
		- -	

	Photocopy this quarea.	(TWA) exposi uestion and o	ure levels and the 15 complete it separatel	y for each pro	cess type and work
CBI		C 1	11 5 14	n 1 (-	_
[_]	Process type	···· Holy	wrether Belt Try Machiner	Malding	Hacess
	Work area?	- Wold	ting Machine	7	
	Labor Category	8-hour	r TWA Exposure Level ng/m³, other-specify)	15-Minu (ppm,	te Peak Exposure Leve mg/m³, other-specify)
	Balt	4.001	PPM	.003 P	94
	Engich.	4.001		9 E00.	•
				, * + - 	
					- Annual Maria
	:				
				· .	
•					
			· -		
		•		•	
			-		
				9	
				:	
					•
•					

80	If you monitor worker	exposur	e to the li	sted substa	nce, compl	ete the fo	llowing table
Ī							
_]	Sample/Test	Work Area ID	Testing Frequency (per year)	Number of Samples (per test)	Who Samples ¹	Analyzed In-House (Y/N)	Number of Years Records Maintained
	Personal breathing	7:4 .01 \$7.02)	4		D	Y	7
	General work area						
	Wipe samples						
	Adhesive patches			***************************************			
	Blood samples						•
	Urine samples						
	Respiratory samples						-
	Allergy tests					***	
	Other (specify)						
	Other (specify)						
	Other (specify)						
	¹ Use the following co A = Plant industrial B = Insurance carrie C = OSHA consultant D = Other (specify)	hygienis r	st .	takes the	monitorin	g samples:	
						. •	

]	Sample Type		Sampling and Analytic	al Methodolo	gy
	Passive Dosinater	Random	Sampling - Colo	or match s	for expes
			lev	el	
	· ·				
•					
.10	If you conduct persona				ubstance,
BI	specify the following	information to	r each equipment type	used.	
<u>==</u> 	Equipment Type ¹	Detection Limi	t ² Manufacturer	Averaging Time (hr)	Model Number
	A	899	GMD Systems	10	Series 5
			<u> </u>		
	4				
	¹ Use the following cod	es to designat	e personal air monitor	ing equipmen	t types:
	A = Passive dosimeter		e personar arr monreos	THE CHATPMEN	, c types
	<pre>B = Detector tube C = Charcoal filtrati D = Other (specify)</pre>	on tube with p	ump		
		es to designat	e ambient air monitori	ng equipment	types:
	<pre>E = Stationary monito F = Stationary monito</pre>				
	G = Stationary monito	rs located at			
	I = Other (specify)				
	² Use the following cod A = ppm	es to designat	e detection limit unit	s:	
		imeter (f/çc)			

PART	C ENGINEERING CONTROLS				
9.12 CBI	to the listed substance. I process type and work area	Photocopy this o	question and comp	lete it separat	ely for each
[_]	Process type	Polyoreth	are Belt Ca	sting Pro	,cess
	Process type	χh, Μ·Χ		••	
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
	Ventilation:				
	Local exhaust			-	
	General dilution	<u> </u>			
	Other (specify)				
			-		-
	Vessel emission controls				
. •	Mechanical loading or packaging equipment			******	
	Other (specify)	, -			
	-				

Describe the engineering of the listed substance. process type and work area	Photocopy this	use to reduce o question and comp	r eliminate wo lete it separa	rker exposur tely for eac
Process type	Polyvret	have Bett	Costing (Process
Process type	esting No	ch re		
Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
Ventilation:				
Local exhaust	<u> </u>		<u> </u>	1388
General dilution	<u> </u>			
Other (specify)				
Vessel emission controls				
Mechanical loading or packaging equipment			*****************	
Other (specify)				

Describe the engineering of to the listed substance. I process type and work area	Photocopy this o	use to reduce o question and comp	r eliminate wor lete it separat	ker exposur ely for eac
	51 11	~		
] Process type	Poly weth	are Belt W	olding to	<u>ocess</u>
Process type	eigh, Mix		••	
Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
Ventilation:				
Local exhaust				
General dilution	<u> </u>			
Other (specify)				

Vessel emission controls				
Mechanical loading or packaging equipment				
Other (specify)				

9.12 CBI	Describe the engineering con to the listed substance. Pho process type and work area.	trols that yo	ou use to reduce question and com	or eliminate wor plete it separat	ker exposure ely for each
<u></u>	Process type	Palcone	there Eet	+ Molding	Procos
· 1	Process type	· lding. 1	hechtness.		
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded
	Ventilation:				
	Local exhaust	<u>Y</u>	1985	<u> </u>	1988
	General dilution	<u> </u>			
	Other (specify)				
	Vessel emission controls				
-	Mechanical loading or packaging equipment			-	
	Other (specify)	•			
•••	·				
		•	•		
·					
•	·				

9.13 CBI	Describe all equipment or process modifications you have prior to the reporting year that have resulted in a red the listed substance. For each equipment or process mother percentage reduction in exposure that resulted. Photomplete it separately for each process type and work as	uction of worker exposure t dification described, state otocopy this question and
CDI		
[_]	Process type Poly unether Belt Ca	sting Process
	Process type Polyunethern Belt Ca Work area "I" weigh, Mix	••
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
	Larger Batch mixing in	50
	Larger Batch mixing in	

]	*	D 14		area.
	Process type	Mall-	Mach-	elding Process
		nt or Process Mo		Reduction in Worke Exposure Per Year (
	Automoted			15
		9		
				-
				•
	•		-	
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		•		
			alia Santana araban arab	
			• • • • • • • • • • • • • • • • • • •	
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٠				

PART D PERSONAL PROTECTIVE AND SAFETY EQUIPMENT

9.14 CBI	Describe the personal protective and safety equip in each work area in order to reduce or eliminate substance. Photocopy this question and complete and work area.	their exposure	e to the listed	
ر <u> </u>	Process type Policy thone Belt	Castin	Process	
ıı	Process type Polyonethane Belt Work area "I" Weigh, Mix			12.
•		Wear or		
•	Equipment Types	Use (Y/N)		
	Respirators			
	Safety goggles/glasses	<u>Y</u> .		
	Face shields	Y		
	Coveralls		٠.	
. •	Bib aprons	<u>Y</u>		
٠	Chemical-resistant gloves	Y		
	· Other (specify)			
	Chemical-resist. Shoes	Y		

PART	D PERSONAL PROTECTIV	VE AND SAFETY EQUIPMENT				
9.14 CBI	in each work area in substance. Photocopand work area.	al protective and safety ed n order to reduce or elimin by this question and comple	nate their expos ete it separatel	sure to t ly for ea	he listed ch process ty	
[_]	Process type	. Polyorethere Bett Costing Nac	Casting 1	hack-, no	2	
	Work area	Casting Nac	h- re			—
			Wear or Use			
		Equipment Types	(Y/N)			
		Respirators				
		Safety goggles/glasses	<u> </u>			
		Face shields				
		Coveralls	· · · · · · · · · · · · · · · · · · ·		•-	
		Bib aprons				
		Chemical-resistant gloves	s			
•		· Other (specify)	•			
				. •		
			_ :			

9.14 Describe the personal protective and safety equipment that your workers wear or use in each work area in order to reduce or eliminate their exposure to the listed substance. Photocopy this question and complete it separately for each process type and work area.

CBI

Process type Polynethere bett wolding Process

	Wear or Use
Equipment Types	(Y/N)
Respirators	
Safety goggles/glasses	<u>Y</u> .
Face shields	<u>Y</u>
Coveralls	
Bib aprons	<u> </u>
Chemical-resistant gloves	Y'
Other (specify)	· .
Chemical resist. Shows	<u> Y</u>
,	1.

9.14	in each work area in	order to reduce of	r eliminate	their expos	our workers wear or use oure to the listed y for each process type
CBI					
[_]	Process type	Polyonethe	re Bel	t Meldi	n Process
	Process type	Neltraf	Nach	reo7	••
		<u>~</u>		Wear or	
		Equipment Types		Use (Y/N)	•
		Respirators			
		Safety goggles/gla	isses	Y	
		Face shields			
•		Coveralls			
					•-
,		Bib aprons	_		÷
		Chemical-resistant	gloves		•
		· Other (specify)	<u>.</u> .		
	•		·		•
		*.************************************			
٠				. •	
	. · ·	-	•		
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				i	
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PART	E WORK PRACTICES				
9.19 <u>CBI</u>	Describe all of the work p eliminate worker exposure authorized workers, mark a monitoring practices, prov question and complete it s	to the listed sureas with warning ide worker train	ubstance (e.g. ng signs, insu ning programs,	, restrict en ire worker det etc.). Phot	ntrance only to section and socopy this
[_]	Process type Poly Work area"	wether F	belt Cas	ting Pe	<u>*</u>
٠	Restrict entre	•			
•	Stors - No Ro	ting or	doinki	بهر ،	
	-				
9.20	Indicate (X) how often you leaks or spills of the list separately for each process	ted substance. s type and work	Photocopy thi area.	s question an	d complete it
	Process type Paly	etsk, Mix	<	8	
		Ü	·		
	Housekeeping Tasks	Less Than Once Per Day	1-2 Times Per Day	3-4 Times Per Day	More Than 4 Times Per Day
	Sweeping	<u> </u>			
•	Vacuuming				•
	Water flushing of floors				

Other (specify)

	****		• • • •		
9.19	Describe all of the work p eliminate worker exposure authorized workers, mark a	to the listed sureas with warning	ıbstance (e.g. ng signs, insu	, restrict en re worker det	trance only to ection and
CBI	monitoring practices, prov question and complete it s	eparately for ea	ich process ty	pe and work a	rea.
[_]	Process type Poly	u rethere	telt Cas	of re p.	70C~S
	Process type Poly Work area 2	sting No	ch: ne		
	Signs-No ex	ting or	drinkin	<u>y</u>	
		C			
9.20	Indicate (X) how often you leaks or spills of the lis separately for each proces	ted substance.	Photocopy thi	sk used to cl s question an	ean up routine d complete it
9.20	leaks or spills of the lis separately for each proces	ted substance. s type and work	Photocopy thi area.	s question an	d complete it
9.20	leaks or spills of the lis	ted substance. s type and work	Photocopy thi area.	s question an	d complete it
9.20	leaks or spills of the lis separately for each proces	ted substance. s type and work vetter time f	Photocopy thi area.	s question an	d complete it
9.20	leaks or spills of the lis separately for each proces	ted substance. s type and work	Photocopy thi area. Left Cast Leve 1-2 Times	s question an	d complete it
9.20	leaks or spills of the lis separately for each process Process type Rely Work area	ted substance. s type and work vetting Less Than	Photocopy thi area. Left Cast Leve 1-2 Times	s question an	d complete it
9.20	Process type Pely Work area	ted substance. s type and work vetting Less Than	Photocopy thi area. Left Cast Leve 1-2 Times	s question an	d complete it
9.20	Process type Pely Work area	ted substance. s type and work vetting Less Than	Photocopy thi area. Left Cast Leve 1-2 Times	s question an	d complete it
9.20	leaks or spills of the lis separately for each process Process type Pely Work area	ted substance. s type and work vetting Less Than	Photocopy thi area. Left Cast Leve 1-2 Times	s question an	d complete it
9.20	leaks or spills of the lis separately for each process Process type Rely Work area	ted substance. s type and work vetting Less Than	Photocopy thi area. Left Cast Leve 1-2 Times	s question an	d complete it

PART	E WORK PRACTICES				,
9.19 CBI	Describe all of the work peliminate worker exposure authorized workers, mark a monitoring practices, provuestion and complete it s	to the listed sureas with warning ide worker train	ubstance (e.g. ng signs, insu ning programs	., restrict er ure worker det , etc.). Phot	trance only to ection and ocopy this
[_]	Process type Pal	y we thank	Bett M	olding f	vocess
	Work area(" w	ergh, Mi	<	•••	
•	Rostoict entra	he to a	ethorize	d forse	nael
	Signs - No es				
	٥	ď		7	
	***************************************			· · · · · · · · · · · · · · · · · · ·	
9 .2 0	Indicate (X) how often you leaks or spills of the lis separately for each process. Process type	ted substance. s type and work	Photocopy this area.	s question an	d complete it
	Work area	TXL, MTX			
	Housekeeping Tasks	Less Than Once Per Day	1-2 Times Per Day	3-4 Times Per Day	More Than 4 Times Per Day
	Sweeping	<u> </u>			
	Vacuuming		<u> </u>		
	Water flushing of floors			·	
	Other (specify)	-			
					•

).19	Describe all of the work peliminate worker exposure authorized workers, mark a monitoring practices, provuestion and complete it s	to the listed su areas with warnin ride worker train	bstance (e.g. g signs, insu ing programs,	, restrict en re worker de etc.). Pho	ntrance only to tection and tocopy this
	D. 1			1 0.	m: 25 5
	Process type Pol	1-1- min Ma	DE LE VOIT	4.1	
,	Work area		,	<i>1</i> · ——	
	5-945-No 2	It no or	- JENE	ing	
	6	7		σ	
	leake or emille of the lie	ted substance.	Photocopy thi	s question ai	M COMPTELE YE
•	leaks or spills of the lisseparately for each process Process type	s type and work	area.		
	separately for each proces	s type and work	area.		Process More Than 4
	Process type	Less Than	area. Bett M Lh.very 1-2 Times	3-4 Times	Process More Than 4
	Process type Perocess Work area	Less Than	area. Bett M Lh.very 1-2 Times	3-4 Times	Process More Than 4
	Process type Perocess Work area	Less Than	area. Bett M Lh.very 1-2 Times	3-4 Times	Process More Than 4
	Process type Performs Work area	Less Than	area. Bett M Lh.very 1-2 Times	3-4 Times	Process More Than 4
	Process type Perocess Work area	Less Than	area. Bett M Lh.very 1-2 Times	3-4 Times	Process More Than 4
	Process type Performs Work area	Less Than	area. Bett M Lh.very 1-2 Times	3-4 Times	Process More Than 4
	Process type Performs Work area	Less Than	area. Bett M Lh.very 1-2 Times	3-4 Times	Process More Than 4
	Process type Performs Work area	Less Than	area. Bett M Lh.very 1-2 Times	3-4 Times	Process More Than 4
	Process type Performs Work area	Less Than	area. Bett M Lh.very 1-2 Times	3-4 Times	Process

9.21	Do you have a written medical action plan for responding to routine or emergency exposure to the listed substance?
	Routine exposure
	Yes 1
	No 2
	Emergency exposure Yes
•	No 2
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes 1
	No
	If yes, where are copies of the plan maintained?
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes 1
	No 2
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist
	Insurance carrier 2
	OSHA consultant
•	Other (specify) 4
[_]	Mark (X) this box if you attach a continuation sheet.

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RO.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

10.01	Where is your facility located? Circle all appropriate responses.
CBI	
[_]	Industrial area
	Urban area 2
	Residential area 3
	Agricultural area 4
	Rural area 5
	Adjacent to a park or a recreational area
	Within 1 mile of a navigable waterway 7
	Within 1 mile of a school, university, hospital, or nursing home facility
	Within 1 mile of a non-navigable waterway
•	Other (specify)10

10.02	Specify the exact location of your fis located) in terms of latitude and (UTM) coordinates.			
	Latitude	••••••	<u>40 • </u>	
	Longitude	•••••••••••••••••••••••••••••••••••••••	76.24	,
	UTM coordinates Zone	, North	ing, East	ing
10.03	the following information.		- ·	
	Average annual precipitation	••••••	20	_ inches/year
	Predominant wind direction	••••••••••••	<u> </u>	_
10.04	Indicate the depth to groundwater be			_ meters
10.05 CBI	For each on-site activity listed, in listed substance to the environment. Y, N, and NA.)			
[_]	On Site Activity	Env: Air	ironmental Release Water	Land
	On-Site Activity	AII	water	Land
	Manufacturing			
	Importing			
	Processing	<u> </u>		
	Otherwise used			
	Otherwise used Product or residual storage			
	Product or residual storage			
	Product or residual storage Disposal			
	Product or residual storage Disposal			

of precision for each item. (Refer to the instr	substance and speci uctions for further	fy the level explanation and
an example.)		
Quantity discharged to the air	300	kg/yr ± 15 % E
Quantity discharged in wastewaters		_ kg/yr ± %
Quantity managed as other waste in on-site treatment, storage, or disposal units		_ kg/yr ± %
Quantity managed as other waste in off-site treatment, storage, or disposal units		_ kg/yr <u>+</u> %
	Ouantity discharged to the air	Quantity discharged to the air

E = Engineering Estimate

10.08 CBI	for each process str process block or res and complete it sepa	technologies used to minimize release of tream containing the listed substance as identified treatment block flow diagram(s). Photography for each process type.	tified in your tocopy this question
[_]	Process type	Polyanethene Bett castin	Process
	Stream ID Code	Control Technology	Percent Efficiency
•			
	,		
	·		
	•		
•			
	Release T	DI to atmosphere	· ·

Process type Po	showethere Belt Molding	Proces
Stream ID Code	Control Technology	Percent Eff
	· · · · · · · · · · · · · · · · · · ·	
Rolere	to I to atmos	phone
(2.28		
	•	•
	• •	
·		

PART	R	RELEASE	ፐበ	ΔTR

		• • • • • • • • • • • • • • • • • • • •	
10.09 <u>CBI</u> [_]	substance in tresidual treat source. Do no	terms of a Streatment block flow ot include raw m , equipment leak	entify each emission point source containing the listed am ID Code as identified in your process block or w diagram(s), and provide a description of each point material and product storage vents, or fugitive emission ks). Photocopy this question and complete it separately
	Process type .	Polyor	rethere Belt Casking Process
•	Point Source ID Code		Description of Emission Point Source
	7.1	~	Weighing
	7.2		Mixing
	7.3		Dispenser
	7.4		Fabric Coater
	7.5		Bett Care Press
•			
			•
		•	
•			

PART 1	B RELEASE TO	AIR						
10.09 <u>CBI</u> []	substance i residual tr source. Do sources (e. for each pr	n terms of eatment b not incl g., equip ocess typ	of a Stre clock flocude raw dent leader.	eam ID Code w diagram(material.a .ks). Phot	e as identified, and product occopy this	point source ied in your provide a description and	process blooption of e , or fugit complete i	ock or each point tive emission it separately
	Point Source		- !				ζ	
	ID Code				Descriptio	n of Emission	Point Sou	irce
	7.1		~	we?	h ine			
	7.2			从一人	·w,			
	7.3			7	DOASS			
	7.4			Belt	Mold	1.05		
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			**					
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Mark (X)	this box if you attac	h a continuation sheet.	gentalis.	
			and the second of the second o	

Mark

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Use the following codes to designate physical state at the point of release:

G = Gas; V = Vapor; P = Particulate; A = Aerosol; 0 = Other (specify)

²Frequency of emission at any level of emission

³Duration of emission at any level of emission

 $^{^4}$ Average Emission Factor — Provide estimated (\pm 25 percent) emission factor (kg of emission per kg of production of listed substance)

PART (C FUGITIVE EMISSIONS						
10.13	Equipment Leaks Complete types listed which are expendenced according to the specified the component. Do this for residual treatment block for not exposed to the listed sprocess, give an overall per exposed to the listed substance for each process type.	osed to the leading weight percentage of tance.	listed suent of these type is). Do note that it ime per occupy this	bstance a le listed dentified ot includ s a batch year tha s questio	nd which substance in your e equipme or inter t the pro n and com	are in se passing process b nt types mittently cess type plete it	rvice through lock or that are operated is separately
[_]	Process type Po	, u we than	ne B	alt Co	-stime	Pro	ess
-	Process type Percentage of time per year type	• • • • • • • • • • • •	of Compo	stance is nents in d Substan	Service by	····· _ y Weight 1	95 % Percent
	Pauliment Turn	Less					Greater than 99%
	Equipment Type Pump seals ¹	than 5%	5-10%	11-25%	20-13%	76-99%	than 99%
	Packed					<u></u>	
	Mechanical Double mechanical ²						
•	Compressor seals ¹						
_	Flanges	·					
	Valves .						
•	Liquid					1	
	Pressure relief devices ⁴ (Gas or vapor only)						
	Sample connections						
	Gas						
	Liquid				·		
	Open-ended lines ⁵	•					

10.13 continued on next page

Gas Liquid

¹List the number of pump and compressor seals, rather than the number of pumps or compressors

10.13	(continued) If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively								
	³ Conditions existing in the valve during normal operation								
	⁴ Report all pressure relie control devices	ef devices in service	e, including those	equipped with					
•	⁵ Lines closed during norma operations	al operation that wou	ıld be used during	maintenance					
10.14 <u>CBI</u>	Pressure Relief Devices wi pressure relief devices id devices in service are con enter "None" under column	entified in 10.13 to trolled. If a press	indicate which p	ressure relief					
·—1	a. Number of	b. Percent Chemical	c.	d. Estimated					
	Pressure Relief Devices	in Vessel ¹	Control Device						
			None	***************************************					
,									
		· •							
									
•									
1	Refer to the table in ques heading entitled "Number o Substance" (e.g., <5%, 5-1	f Components in Serv	d the percent rangice by Weight Perc	ge given under the cent of Listed					
	The EPA assigns a control with rupture discs under n efficiency of 98 percent f conditions	ormal operating cond	itions. The EPA a	ssigns a control					

10.13	Equipment Leaks Complete the following table by providing the number of equipment types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated process, give an overall percentage of time per year that the process type is exposed to the listed substance. Photocopy this question and complete it separately							
CBI	for each process type.			-		_	_	
[_]	Process type Poly	rvethoue	Belt	Mold	ing	Proce	225	
	Percentage of time per year type	r that the li	sted sub	stance is	exposed	to this p	rocess x	
					Service by		am	
	Equipment Type Pump seals ¹	Less than 5%	5-10%	11-25%	<u>26-75%</u>	<u>76-99%</u>	Greater than 99%	
	Packed Mechanical Double mechanical ²			20				
•	Compressor seals ¹					\overline{z}		
	Flanges			· ·				
	Valves .							
•	Gas ³			<i>'.</i>				
	Liquid			10		•		
	Pressure relief devices ⁴ (Gas or vapor only)			5				
	Sample connections							
	Gas							
	Liquid							
	Open-ended lines ⁵ (e.g., purge, vent)	-						
	Gas						•	
	Liquid			_5_				
	¹ List the number of pump an compressors	d compressor	seals, r	ather tha	n the num	ber of pu	mps or	
0.13 [.]	continued on next page							

10.13	(continued)	(continued)							
	² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicat with a "B" and/or an "S", respectively								
	³ Conditions existing in the valve during normal operation								
	⁴ Report all pressure relie control devices	ef devices in servic	e, including those	equipped with					
	⁵ Lines closed during norma operations	al operation that wo	uld be used during	maintenance					
10.14 CBI	Pressure Relief Devices wing pressure relief devices in devices in service are content "None" under column	dentified in 10.13 to atrolled. If a press	indicate which p	ressure relief					
[_]	a.	b.	ç.	d.					
	Number of Pressure Relief Devices	Percent Chemical in Vessel ¹	Control Device	Estimated Control Efficiency ²					
•		AND ADDRESS OF THE PARTY OF THE	None						

		· •		·					
•	•								
•		**************************************							
	T								
	•								
	Refer to the table in ques heading entitled "Number of Substance" (e.g., <5%, 5-1	of Components in Serv	d the percent rang vice by Weight Perc	ge given under the cent of Listed [*]					
	² The EPA assigns a control with rupture discs under mefficiency of 98 percent fonditions	ormal operating cond	litions. The EPA a	assigns a control					
			•						
i_] ·	Mark (X) this box if you at	tach a continuation	sneet.						

I certify that I have personally examined and am familiar with the information submitted in this CBI Substantiation Form and all attached documents. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

A. Ronald Hetrich A. Ronald Hotell
NAME

V. P. Development

TITLE

(717)

(<u>717</u>) <u>665</u> - <u>2421</u> TELEPHONE NO.



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